

**ENSB-285 Entrepreneurship** 3 cr.  
Teaches entrepreneurs planning skills from business concept development to the actual development of a comprehensive business plan. A hands-on approach to starting and managing a business from product concept to dissolution. Prerequisite: ENGL 099 or APEN 085+; and RDNG 113 or APRD 081+. Corequisite: ENSB 150. Semester Offered: Fall.

## FINANCE

**FINA-265 Personal Investing** 3 cr.  
Provides a practical education in the research and analysis of common investments such as stocks, bonds, mutual funds, and some derivatives including put and call options on equities. Students will be involved with simulated stock, mutual fund, and option competitions. Semester Offered: Fall And Spring.

## FIRE SCIENCE

**FIRE-110 Firefighter I** 9 cr.  
Teaches the basic principles and skills of firefighting. It is designed to develop a student starting with little or no knowledge of firefighting into a firefighter with a good knowledge. The course covers the characteristics and science of fire and its behavior. It exposes the student to some of the basic principles of firefighting, as well as some of the basic strategies and tactics employed to extinguish fire. Finally, this course covers many of the additional functions that firefighters may be called on to accomplish. Basic course in firefighting for entry-level firefighters.

**FIRE-118 Physical Fitness for Firefighters** 1 cr.  
Teaches the aspects of fitness for fire fighting. Students will learn how to develop strength, cardiovascular endurance, and flexibility in a participatory learning environment. Students are coached through workouts designed to improve strength in target muscle groups and develop the student's cardiovascular ability and fitness.

**FIRE-120 Firefighter II** 6 cr.  
Builds on the principles and skills covered in Fire I. More advanced principles and techniques are introduced, and many of the concepts introduced in Fire I are expanded upon. This course rounds out the entry-level firefighter and discusses concepts that a competent firefighter needs to know. Prerequisite: FIRE 110.

**FIRE-130 Technical Rescue for Firefighters** 1 cr.  
Teaches the basic concepts, techniques and safety for the standard disciplines of technical rescue in the fire service. The student is exposed to the basic concepts of high angle rescue, confined space rescue and swift water rescue. Basic techniques, equipment, strategies and safety are covered, and the student is afforded the opportunity to participate in each of the disciplines at an introductory level.

**FIRE-140 Hazmat Operations for Firefighters** 1 cr.  
Designed to give the entry-level firefighter the knowledge and competence to operate on a hazardous materials incident. Covers the identification and recognition of hazardous materials, techniques for isolating the scene and denying entry into the area, and the basic

support techniques utilized by firefighters to assist a technical hazardous materials entry team. The course covers the organizational structure of a hazardous materials incident and identifies the necessary elements of incident command on hazardous materials incident.

**FIRE-150 Fire Lab** 5 cr.  
Encompasses those principles and skills from Firefighter I and Firefighter II in a practical setting. This lab course is designed to give the student practical experience with fire attack, rescue and all of the support functions associated with fire incidents and fire department response. Students are put through practical evolutions starting with singular function assignments and building to multi-company, multi-functional operations on the fire ground. Prerequisites: FIRE 110, FIRE 120.

**FIRE-215 Fire Instructor I** 3 cr.  
This is an upper level course designed for individuals in the fire service who face the unique challenges of instructing and implementing both classroom and practical classes related to firefighting (including live fire). The course deals with safety, legal considerations, psychology, planning, methodology and lesson plans, practical training and NFPA standards, media and technology. Prerequisites: FIRE 110, FIRE 120.

**FIRE-220 Mandated Firefighter Training** 5 cr.  
This course includes a minimum of 64 hours of lecture in firefighting disciplines required of line firefighters responding to calls. Included are many short courses mandated by OSHA for responses to certain types of incidents or are needed in order to perform to the standard of care accepted by the sponsor agency. Included in this course are such classes as Cardiopulmonary Resuscitation (CPR), Coaching the Emergency Vehicle Operator (CEVO), Blood-borne Pathogens Training, Semi-Automatic Defibrillator Training and S130/S190 Wild Land Firefighting Safety Courses. Each of these classes is taught in accordance with the curriculum and course recommendations of the agency producing the curriculum. Prerequisites: FIRE 110, FIRE 120.

**FIRE-230 Firefighting Equipment and Apparatus Lab** 4 cr.  
This course will provide the student with an extensive level of proficiency and knowledge about the tools and equipment used in firefighting. This course also teaches the specifications, capabilities and correct operation of firefighting apparatus. Completion of this course will give the student an intricate knowledge and proficiency in the specifications, operation and maintenance of all firefighting equipment carried on the apparatus, as well as the apparatus itself. Students will work on each unit individually, collecting and studying the specifications for each. The firefighting equipment carried on each unit will be individually taught to the student, and students will have the opportunity to work with each piece of equipment in a hands-on lab environment. Prerequisites: FIRE 110, FIRE 120.

**FIRE-240 Firefighter I Skills Lab** 4 cr.  
In this course the student will demonstrate proficiency in the skills required for the National Fire Protection Association (NFPA) standard 1001 - Professional competencies for firefighters - Firefighter I. Students will build confidence by having the opportunity to actually perform those competencies and skills taught in previous portions of the class under actual emergency or simulated emergency conditions. Prerequisites: FIRE 110 and department affiliation.

**FIRE-245 Pumping Apparatus Driver/Operator** 4 cr.  
Based on the National Fire Protection Association standard 1002 - Professional competencies for fire apparatus driver/operators. The course is designed to incorporate approximately 46 hours of lecture and 25 hours of lab time. There are student requirements for practical evolution practices outside of the course framework. This includes a valid driver's license (Class A, B, or E) covering fire apparatus to be operated. Prerequisite: Permission of instructor. Semester offered: On Demand.

**FIRE-250 Firefighter II Skills Proficiency Lab** 4 cr.  
In this course the student will demonstrate proficiency in the skills required for the National Fire Protection Association (NFPA) standard 1001 - Professional competencies for firefighters - Firefighter II. Students will build confidence by having the opportunity to actually perform those competencies and skills taught in previous portions of the class under actual emergency or simulated emergency conditions. Prerequisites: FIRE 120 and department affiliation.

**FIRE-255 Fire Safety-Save Your Own** 2 cr.  
Instructs firefighters with the information and skills needed to recognize conditions that contribute to firefighter injury and fatalities. This includes 16 hours of lecture, and 25 hours of lab time. Topics covered in the lecture/classroom portion include fatality rates, federal mandates, fire ground communication, fire fighter entanglement and the formation of RIT teams. Prerequisites: FIRE 110, FIRE 120. Semester offered: On Demand.

**FIRE-260 Fire Officer I** 4 cr.  
Covers such topics as the role of fire officers, safety and wellness of fire personnel. This includes recognizing and managing cultural diversity, problem solving, building construction, community awareness, public relations, fire cause determination, and effective communication. Prerequisite: FIRE 120. Semester offered: On Demand.

**FIRE-265 Fire Officer II** 3-4 cr.  
Covers such topics that include human resources management, managing affirmative action, government agencies, budgetary process and information management systems. Also covered are health and safety, public fire education, specialized fire protection equipment, strategic planning and tactics. Prerequisite: FIRE 260. Semester offered: On Demand.

**FIRE-280 Firefighter Career Internship** 4 cr.  
Instructs students who will operate as a line firefighter. The instructor will maintain contact with the student and guide them to accomplish those functions required in the firefighting career. This educationally based experience will help the student make the transition from training environment to operating as a fully functioning firefighter. Prerequisite: Permission of instructor. Semester offered: On Demand.

## FRENCH

**FREN-111 Elementary French I** 4 cr.  
Develop listening, speaking, reading and writing skills to communicate at a basic level. The course will use a communicative approach to cover the fundamentals of basic vocabulary, grammar, conversation and culture. Prerequisites: APEN 40+ and APRD 39+ or permission of instructor. Semester offered: Fall, and Spring.

**FREN-112 Elementary French II** 4 cr.  
Continuation of FREN 111. Elementary French I. Prerequisite: FREN 111 or permission of instructor. Semester offered: On Demand.

**FREN-211 Intermediate French I** 3 cr.  
This course is designed to further develop listening, speaking, reading and writing skills in French using a communicative approach to reinforce and expand the students' working knowledge of vocabulary, grammar, and culture. Prerequisite: FREN 112 or permission of instructor. Semester offered: On Demand.

**FREN-212 Intermediate French II** 3 cr.  
Continuation of Intermediate French I. Prerequisite: French 211 or permission of instructor. Semester offered: On Demand.

## GEOGRAPHY

**GEOG-111 Physical Geography** (3+2p) 4 cr.  
This class explores the distribution of features across the surface of the earth and analyzes the spatial and functional relationships that shape the earth, including the earth's movements, cycles, atmosphere, oceans, weather and climate, landform processes, vegetation dynamics and distribution, soil development and classification, and ecosystems. A lab is required. Semester offered: Fall.

**GEOG-112 World Regional Geography** 3 cr.  
This course introduces students to the geographic regions of the world while emphasizing their physical features, resources, economies, culture, and politics. This class will cover trends in population, development and environment occurring around the world as well as methods and concepts of global and regional processes. Semester Offered: Fall, Spring.

**GEOG-115 Map Use, Interpretation and Design** (3+2p) 4 cr.  
The basic principles, functions, origins, use, interpretation, and cartographic design of maps will be covered. Semester Offered: Fall.

**GEOG-118 Introduction to Mapping Technologies** (3+2p) 4 cr.  
This course is an introduction to the current primary mapping technologies. Students will develop a basic understanding of Geographic Information Systems (GIS), Global Positioning Systems (GPS), and remote sensing technologies. Emphasis will be placed on applications of these technologies to a variety of fields. A lab is required. Semester Offered: Fall and Spring.

**GEOG-120 GPS and Surveying Methods** (3+2p) 4 cr.  
This course provides an overview of global positioning systems. Topics include the theory, implementation, and operations of global positioning systems. Students will learn the fundamentals of acquiring GIS data using GPS technology, and understand surveying methods important for use in GIS. Prerequisite: GEOG 118. Semester Offered: Spring.

**GEOG-125 Weather and Climate** 3 cr.  
Introduces the atmospheric processes and geographic distribution of factors that interact to create weather systems and storms. Course will address issues such as the greenhouse effect, severe weather, global